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**PATENT APPLICATION**

UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

**Ingo IRION and Michael VOSS**

Appln. No.: 10/780,200

Group Art Unit: 3722

Filed: **February 17, 2004**

Confirmation No. 9910

For: **DEVICE FOR CLAMPING TOOLS**

Attorney Docket No.: 3827.124

Customer No.: 000041288

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97 and §1.98**

**Mail Stop Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §56, Applicants hereby notify the U.S. Patent and Trademark Office of the following documents for the above-identified application which were cited in the specification of the present invention and/or by the Examiner in the corresponding German application and/or the International Search Report and/or a Request for Cancellation of the German priority application and/or Search Report in or Opposition to the European counterpart application, copies of which are submitted herewith. Copies of the documents set forth below and listed on the attached Form PTO/SB/08, are provided herewith.

1. US Patent No. 5,311,654

U.S. PATENT APPLICATION  
SERIAL NO.: 10/780,200  
INFORMATION DISCLOSURE STATEMENT

ATTY DOCK: 3827.124

2. US Patent No. 6,060,694
3. US Patent No. 5,041,806
4. German Patent No. DE 39 25 641 C2
5. German Patent No. DE 297 05 185 U1
6. German Patent No. DE 298 20 838 U1
7. French Patent No. FR 1,524,221
8. German Patent No. DD 96 427 A
9. Swiss Patent No. CH 29 334 A
10. European Patent No. EP 0 406 782 A
11. Request for cancellation of German derivation 200 08 675 of PCT/EP00/02123 (and cited documents)
12. *Induktive Erwärmung, Physikalische Grundlagen und technische Anwendungen*, 4. vollständig überarbeitete Auflage 1991.
13. Essay of Martin Eastman "Shrink-Fit Toolholding", Zeitschrift Cutting Tool Engineering, April 1997, Seiten 76 bis 83
14. *Shrinker Tooling Innovations, A True Breakthrough in Toolholding Technology*, 12/96
15. *Production and Concentration of Magnetic Flux for More Efficient Induction Heating Applications*, R.S. Ruffini and Robert J. Madiera, Industrial Heating, February 1989
16. *Materials for Effective Magnetic Flux Control and Concentration in Induction Heating Processes*, R.S. Ruffini et al., Industrial Heating, November 1996
17. *Production and Concentration of Magnetic Flux for Induction (Eddy Current) Heating Applications*, R.S. Ruffini, Industrial Heating, November 1994

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SERIAL NO.: 10/780,200  
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18. *Magnetic Flux Concentrators: Myths, Realities, and Profits*, Dr. Valery Rudnev et al, Metal Heat Treating, March/April 1995

19. *Taschenbuch der Hochfrequenztechnik*, H. Meinke et al, Dritte verbesserte Auflage, 1968

20. *Soviet Inventions Illustrated*, Sections P, Q: General/Mechanical, Derwent Publications Ltd, UK 1983

21. Opposition against European Patent 1 165 284

22. Infringement suit against the firm GEWEFA Josef C. Pfister GmbH & Co. Präzisionswerkzeugfabrik with cited documents.

**Document 1**

Document 1 is cited in the Request for Cancellation of German derivation 200 08 675 and the Opposition in EP 1 165 284 B1.

Document 1 is in the English language.

**Document 2**

Document 2 is the English language equivalent of Document 5, DE 29705185. In the Request for Cancellation Document 1 is cited for teaching tool holders for rapidly rotating tools.

**Document 3**

Document 3 is the English language equivalent of Document 10, EP 0 406 782 A.

**Documents 4-6**

In the German Search Report Documents 4, 5 and 6 were cited as "A" category relevancy, mere technical background.

Applicants are not aware of any English language document equivalent to Document 4, other than an English language abstract of patent family member: EP0382079:

The method and the device serve to chuck tools (12) in a receptacle (17) of a spindle (10), which receptacle (17) encloses a shank of the tool (12). In order to hold the tool (12) in the receptacle (17) with as powerful a frictional connection as possible, first of all the section (16) of the spindle (10) surrounding the receptacle (17) is heated at least in sections, then the tool (12) is inserted into the receptacle (17) enlarged by the heating, and finally the section (16) is cooled down again in such a way that the tool (12) is held frictionally in the receptacle (17) contracted by the cooling-down. For this purpose, the receptacle (17) is designed as a sleeve-shaped section (16), and a heating device (18, 19) for the section (16) is arranged at the same.

As indicated above, Document 2 is an English family member of Documents 5.

Applicants are not aware of any English language document equivalent to 6.

**Document 7**

Document 7 is cited in the Opposition in EP 1 165 284 B1.

Applicants are not aware of any English language document equivalent to Document 7.

In the Opposition Document 7 was cited for teaching a device for clamping and releasing a shell press seat on a shaft via an induction coil surrounding the shell and acted upon by induction current.

**Document 8, 9, 10 and 20**

In the International Search Report, Documents 8, 9, 10 and 20 are cited as "A" category relevancy, mere technical background.

Applicants are not aware of any English language documents equivalent to Documents 8 and 9.

As discussed above, Document 3 is the English language equivalent of Document 10, EP 0 406 782 A.

Document 20 is in the English language.

**Document 11**

Request for cancellation of German derivation 200 08 675 of PCT/EP00/02123 (and cited documents, *see below 12-18*):

**Document 12**

*Induktive Erwärmung, Physikalische Grundlagen und technische Anwendungen, 4. vollständig überarbeitete Auflage 1991.*

In the request for cancellation of the German Patent, Document 12 is cited for teaching at pages 7-12 the inherent electrical resistance of metal objects will cause them to heat

when inductive current is passed through them. Pages 27-30 are cited for teaching joining and releasing of shrunk press bands.

**Document 13**

Essay of Martin Eastman "Shrink-Fit Toolholding", Zeitschrift Cutting Tool Engineering, April 1997, Seiten 76 bis 83.

**Document 14**

*Shrinker Tooling Innovations, A True Breakthrough in Toolholding Technology, 12/96*

**Document 15**

*Production and Concentration of Magnetic Flux for More Efficient Induction Heating Applications, R.S. Ruffini and Robert J. Madiera, Industrial Heating, February 1989*

**Document 16**

*Materials for Effective Magnetic Flux Control and Concentration in Induction Heating Processes, R.S. Ruffini et al., Industrial Heating, November 1996*

**Document 17**

*Production and Concentration of Magnetic Flux for Induction (Eddy Current) Heating Applications, R.S. Ruffini, Industrial Heating, November 1994*

**Document 18**

U.S. PATENT APPLICATION  
SERIAL NO.: 10/780,200  
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*Magnetic Flux Concentrators: Myths, Realities, and Profits,*  
*Dr. Valery Rudnev et al, Metal Heat Treating, March/April 1995*

**Document 19**

*Taschenbuch der Hochfrequenztechnik, H. Meinke et al,*  
*Dritte verbesserte Auflage, 1968*

In the Opposition Document 19 was cited for teaching multi-filament braded wire as conventional for high frequency applications, and coils of such braded wire being air cooled.

**Document 21**

Opposition again European Patent 1 165 284

**Document 22**

Infringement suit against the firm GEWEFA Josef C. Pfister GmbH & Co. Präzisionswerkzeugfabrik with cited documents.

The present Information Disclosure Statement is being filed after three months from the application's filing date but before the mailing date of the first Office Action on the merits, therefore no Certification Under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

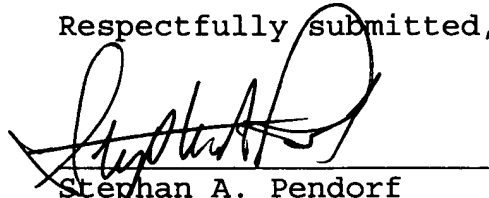
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedated or otherwise remove any listed document as a competent reference against the claims of the present application.

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SERIAL NO.: 10/780,200  
INFORMATION DISCLOSURE STATEMENT

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Applicant respectfully requests that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,



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Dated: **December 2, 2004**



U.S. PATENT APPLICATION  
SERIAL NO.: 10/780,200  
INFORMATION DISCLOSURE STATEMENT

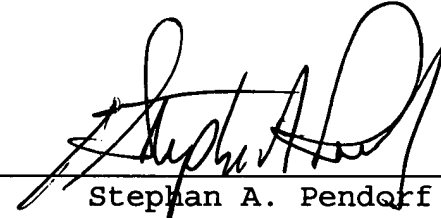


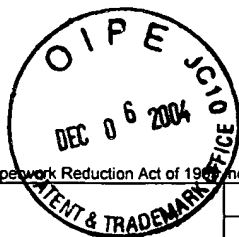
ATTY DOCK: 3827.124

**CERTIFICATE OF MAILING AND AUTHORIZATION TO CHARGE**

I hereby certify that the foregoing INFORMATION DISCLOSURE STATEMENT Form PTO/SB/08, including twenty two (22) documents, for U.S. Application No. 10/780,200 filed February 17, 2004, were deposited in first class U.S. mail, postage prepaid, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on **December 2, 2004**.

The Commissioner is hereby authorized to charge any additional fees which may be required at any time during the prosecution of this application, except for the issue fee, without specific authorization, or credit any overpayment, to Deposit Account No. 16-0877.

  
Stephan A. Pendorf



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/780,200
Filing Date	2/17/04
First Named Inventor	Ingo Irion SCHWANAU et al.
Art Unit	3722
Examiner Name	Not yet assigned
Attorney Docket No.	3827.124

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,311,654	5/17/1994	Cook	
		US-6,060,694	5/9/2000	Hauser	
		US-5,041,806	8/20/1991	Enderle et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		DE 39 25 641 C2	3/8/1989	Jessinger et al.		
		DE 297 05 185 U1	3/21/1997	Hauser et al.		
		DE 298 20 838 U1	11/21/1998	Helmut Diebold GmbH		
		FR 1,524,221	4/1/1968			
		DD 96 427 A	3/20/1978	Weiss, W		
		CH 29 334 A	8/15/1904	Margowski Max		
		EP 0 406 782 A	1/9/1991	Zeiss Carl		

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Request for cancellation of German derivation 200 08 675 of PCT/EP00/02123 (and cited documents)	
		Induktive Erwärmung, Physikalische Grundlagen und technische Anwendungen, 4. vollständig überarbeitete Auflage 1991	
		Shrinker Tooling Innovations, A True Breakthrough in Toolholding Technology, 12/96	
		Production and Concentration of Magnetic Flux for More Efficient Induction Heating Applications, R.S. Ruffini and Robert J. Madiera, Industrial Heating, February 1989	
		Materials for Effective Magnetic Flux Control and Concentration in Induction Heating Processes, R.S. Ruffini et al., Industrial Heating, November 1996	
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		Essay of Martin Eastman "Shrink-Fit Toolholding", Zeitschrift Cutting Tool Engineering, April 1997, Seiten 76 bis 83	
		Magnetic Flux Concentrators: Myths, Realities, and Profits, Dr. Valery Rudnev et al, Metal Heat Treating, March/April 1995	
		Taschenbuch der Hochfrequenztechnik, H. Meinke et al, Dritte verbesserte Auflage, 1968	
		Soviet Inventions Illustrated, Sections P, Q: General/Mechanical, Derwent Publications Ltd, UK 1983	
		Opposition against European Patent 1 165 284	
		Infringement suit against the firm GEWEFA Josef C. Pfister GmbH & Co. Präzisionswerkzeugfabrik with cited documents.	

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.